

Applicant : Bradley et al.
 Serial No. : 09/546,085
 Filed : April 10, 2000
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Attorney's Docket No.: 11635-010001 / OTA 97-63

AMENDMENT

Please amend the above-captioned application as follows:

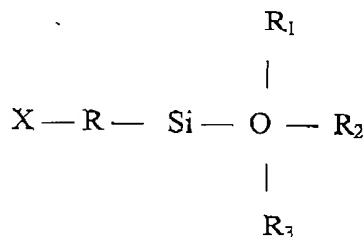
In The Claims:

Please add the following new claims:

66. A process for making a modified biological molecule comprising the steps of:
 (a) providing a biological molecule comprising a guanine base or a cytosine base;
 (b) reacting the guanine base or the cytosine base with an N-bromosuccinimide at pH about 8.0 to form a brominated biological molecule; and
 (c) reacting the brominated biological molecule with a silane having the formula $\text{—HN—(CH}_2\text{)}_n\text{—Si(OR)}_3$, wherein $n = 3, 4, 5, 6, 7, 8, \text{ or } 9$.

67. The process of claim 66, wherein R is selected from the group consisting of —CH_3 , $\text{—C}_2\text{H}_5$, and $\text{—C}_3\text{H}_7$.

68. A process for making a modified biological molecule comprising the steps of:
 (a) providing a biological molecule;
 (b) providing a compound having a formula



wherein X is a halide and R is a moiety chemically suitable for linking the biological molecule with the Si moiety;

(c) reacting the biological molecule with the compound of step (b) at near neutral pH.

69. The process of claim 68, wherein the halide is selected from the group consisting of a Cl, a Br and an I.

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70. The process of claim 68, wherein the R group is selected from the group consisting of a —OCH_3 , and a $\text{—OC}_2\text{H}_5$.

71. The process of claim 68, wherein the compound of step (b) is selected from the group consisting of 8-bromocyltrichlorosilane, 8-bromocyltrimethoxysilane, 4-chlorobutylmethyldichlorosilane, and 3-iodopropyltrimethoxysilane.

72. The process of claim 66 and claim 68, wherein the biological molecule comprises a polypeptide or a peptide.

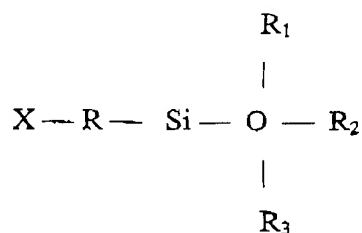
73. The process of claim 66 and claim 68, wherein the biological molecule comprises a polysaccharide or a saccharide.

74. The process of claim 66 and claim 68, wherein the biological molecule comprises a lipid.

75. The process of claim 66 and claim 68, wherein the biological molecule comprises a small molecule.

76. A process for making a microarray comprising a modified biological molecule comprising the steps of:

- (a) providing a biological molecule;
- (b) providing a solid support;
- (c) providing a compound having a formula



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wherein X is a halide and R is a moiety chemically suitable for linking the biological molecule with the Si moiety;

(d) reacting the biological molecule with the compound of step (c) at near neutral pH, thereby making a modified biological molecule; and,

(e) immobilizing the biological molecule in a plurality of discrete spots upon the solid support, thereby making a microarray.

77. A process for making a microarray comprising a modified biological molecule comprising the steps of:

(a) providing a biological molecule comprising a guanine base or a cytosine base;

(b) providing a solid support;

(c) reacting the guanine base or the cytosine base with an N-bromosuccinimide at pH about 8.0 to form a brominated biological molecule;

(d) reacting the brominated biological molecule with a silane having the formula $\text{—HN—(CH}_2\text{)}_n\text{—Si(OR)}_3$, wherein $n = 3, 4, 5, 6, 7, 8, \text{ or } 9$; thereby making a modified biological molecule; and,

(e) immobilizing the biological molecule in a plurality of discrete spots upon the solid support, thereby making a microarray.